

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/615,383A  
Source: 1FW16  
Date Processed by STIC: 8/21/06

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/615,383A

DATE: 08/21/2006

TIME: 11:35:13

Input Set : A:\Sequence\_10-615,383.txt  
 Output Set: N:\CRF4\08212006\J615383A.raw

5 <110> APPLICANT: FOSTER, Timothy  
 7 <120> TITLE OF INVENTION: POLYPEPTIDES AND POLYNUCLEOTIDES FROM COAGULASE-NEGATIVE  
 STAPHYLOCOCCI  
 9 <130> FILE REFERENCE: P06335US03/BAS  
 11 <140> CURRENT APPLICATION NUMBER: 10/615,383A  
 12 <141> CURRENT FILING DATE: 2003-07-09  
 14 <150> PRIOR APPLICATION NUMBER: 09/386,962  
 15 <151> PRIOR FILING DATE: 1999-08-31  
 17 <150> PRIOR APPLICATION NUMBER: 60/098,443  
 18 <151> PRIOR FILING DATE: 1998-08-31  
 20 <150> PRIOR APPLICATION NUMBER: 60/117,119  
 21 <151> PRIOR FILING DATE: 1999-01-25  
 23 <160> NUMBER OF SEQ ID NOS: 40  
 25 <170> SOFTWARE: PatentIn version 3.1  
 27 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 5406  
 29 <212> TYPE: DNA  
 30 <213> ORGANISM: Staphylococcus epidermidis  
 32 <220> FEATURE:  
 33 <221> NAME/KEY: CDS  
 34 <222> LOCATION: (1)..(5406)  
 35 <223> OTHER INFORMATION:  
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39	Tyr	Trp	Ile	Asn	Tyr	Ala	Tyr	Lys	Val	Phe	Thr		Lys	Cys	Lys	Cys		
40	1				5				10						15			
42	aat	tta	caa	gta	aat	att	caa	att	att	tcc	ttg	taa	aat	att	tat	ttt		96
43	Asn	Leu	Gln	Val	Asn	Ile	Gln	Ile	Ile	Ser	Leu		Asn	Ile	Tyr	Phe		
44						20				25					30			
46	aac	tgg	agg	tat	agt	atg	aaa	aag	aga	aga	caa	gga	cca	att	aac	aag		144
47	Asn	Trp	Arg	Tyr	Ser	Met	Lys	Lys	Arg	Arg	Gln	Gly	Pro	Ile	Asn	Lys		
48						35				40				45				
50	aga	gtg	gat	ttt	cta	tcc	aac	aag	gta	aac	aag	tac	tcg	att	agg	aag		192
51	Arg	Val	Asp	Phe	Leu	Ser	Asn	Lys	Val	Asn	Lys	Tyr	Ser	Ile	Arg	Lys		
52					50				55				60					
54	tcc	aca	gta	ggt	aca	gct	tca	ata	ctc	gtg	ggt	gct	acg	tta	atg	ttt		240
55	Phe	Thr	Val	Gly	Thr	Ala	Ser	Ile	Leu	Val	Gly	Ala	Thr	Leu	Met	Phe		
56					65				70			75						
58	ggt	gcc	gca	gac	aat	gag	gct	aaa	gcg	gct	gaa	gac	aat	caa	tta	gaa		288
59	Gly	Ala	Ala	Asp	Asn	Glu	Ala	Lys	Ala	Ala	Glu	Asp	Asn	Gln	Leu	Glu		
60					80				85			90						
62	tca	gct	tca	aaa	gaa	gaa	cag	aaa	ggt	agt	cgt	gat	aat	gaa	aac	tca		336
63	Ser	Ala	Ser	Lys	Glu	Glu	Gln	Lys	Gly	Ser	Arg	Asp	Asn	Glu	Asn	Ser		
64	95				100				105			110						

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66	aaa	ctt	aat	caa	gtc	gat	tta	gac	aac	gga	tca	cat	agt	tct	gag	aaa	384
67	Lys	Leu	Asn	Gln	Val	Asp	Leu	Asp	Asn	Gly	Ser	His	Ser	Ser	Glu	Lys	
68																115	
																120	
																125	
70	aca	aca	aat	gta	aac	aat	gca	act	gaa	gta	aaa	aaa	gtt	gaa	gca	cca	432
71	Thr	Thr	Asn	Val	Asn	Asn	Ala	Thr	Glu	Val	Lys	Lys	Val	Glu	Ala	Pro	
72																130	
																135	
																140	
74	acg	aca	agt	gac	gta	tct	aag	cct	aaa	gct	aat	gaa	gca	gta	gtg	acg	480
75	Thr	Thr	Ser	Asp	Val	Ser	Lys	Pro	Lys	Ala	Asn	Glu	Ala	Val	Val	Thr	
76																145	
																150	
																155	
78	aat	gag	tca	act	aaa	cca	aaa	aca	aca	gaa	gca	cca	act	gtt	aat	gag	528
79	Asn	Glu	Ser	Thr	Lys	Pro	Lys	Thr	Thr	Glu	Ala	Pro	Thr	Val	Asn	Glu	
80																160	
																165	
																170	
82	gaa	tca	ata	gct	gaa	aca	ccc	aaa	acc	tca	act	aca	caa	caa	gat	tcg	576
83	Glu	Ser	Ile	Ala	Glu	Thr	Pro	Lys	Thr	Ser	Thr	Thr	Gln	Gln	Asp	Ser	
84	175															180	
																185	
																190	
86	act	gag	aag	aat	aat	cca	tct	tta	aaa	gat	aat	tta	aat	tca	tcc	tca	624
87	Thr	Glu	Lys	Asn	Pro	Ser	Leu	Lys	Asp	Asn	Leu	Asn	Ser	Ser	Ser	Ser	
88																195	
																200	
																205	
90	acg	aca	tct	aaa	gaa	agt	aaa	aca	gac	gaa	cat	tct	act	aag	caa	gct	672
91	Thr	Thr	Ser	Lys	Glu	Ser	Lys	Thr	Asp	Glu	His	Ser	Thr	Lys	Gln	Ala	
92																210	
																215	
																220	
94	caa	atg	tct	act	aaa	tca	aat	tta	gac	aca	aat	gac	tct	cca	act	720	
95	Gln	Met	Ser	Thr	Asn	Lys	Ser	Asn	Leu	Asp	Thr	Asn	Asp	Ser	Pro	Thr	
96																225	
																230	
																235	
98	caa	agt	gag	aaa	act	tca	tca	caa	gca	aat	aac	gac	agt	aca	gat	aat	768
99	Gln	Ser	Glu	Lys	Thr	Ser	Ser	Gln	Ala	Asn	Asn	Asp	Ser	Thr	Asp	Asn	
100																240	
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																250	
102	cag	tca	gca	cct	tct	aaa	caa	tta	gat	tca	aaa	cca	tca	gaa	caa	aaa	816
103	Gln	Ser	Ala	Pro	Ser	Lys	Gln	Leu	Asp	Ser	Lys	Pro	Ser	Glu	Gln	Lys	
104	255															260	
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106	gta	tat	aaa	aca	aaa	ttt	aat	gat	gaa	cct	act	caa	gat	gtt	gaa	cac	864
107	Val	Tyr	Lys	Thr	Lys	Phe	Asn	Asp	Glu	Pro	Thr	Gln	Asp	Val	Glu	His	
108																275	
																280	
																285	
110	acg	aca	act	aaa	tta	aaa	aca	cct	tct	gtt	tca	aca	gat	agt	tca	gtc	912
111	Thr	Thr	Lys	Leu	Lys	Thr	Pro	Ser	Val	Ser	Thr	Asp	Ser	Ser	Val		
112																290	
																295	
																300	
114	aat	gat	aag	caa	gat	tac	aca	cga	agt	gct	gta	gct	agt	tta	ggt	gtt	960
115	Asn	Asp	Lys	Gln	Asp	Tyr	Thr	Arg	Ser	Ala	Val	Ala	Ser	Leu	Gly	Val	
116																305	
																310	
																315	
118	gat	tct	aat	gaa	aca	gaa	gca	att	aca	aat	gca	gtt	aga	gac	aat	tta	1008
119	Asp	Ser	Asn	Glu	Thr	Glu	Ala	Ile	Thr	Asn	Ala	Val	Arg	Asp	Asn	Leu	
120																320	
																325	
																330	
122	gat	tta	aaa	gct	gca	tct	aga	gaa	caa	atc	aat	gaa	gca	atc	att	gct	1056
123	Asp	Leu	Lys	Ala	Ala	Ser	Arg	Glu	Gln	Ile	Asn	Glu	Ala	Ile	Ile	Ala	
124	335															340	
																345	
																350	
126	gaa	gca	cta	aaa	aaa	gac	ttt	tct	aac	cct	gat	tat	ggt	gtc	gat	acg	1104
127	Glu	Ala	Leu	Lys	Asp	Phe	Ser	Asn	Pro	Asp	Tyr	Gly	Val	Asp	Thr		
128																355	
																360	
																365	
130	cca	tta	gct	cta	aac	tct	caa	tca	aaa	aat	tca	cca	cat	aag	agt		1152

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131	Pro	Leu	Ala	Leu	Asn	Arg	Ser	Gln	Ser	Lys	Asn	Ser	Pro	His	Lys	Ser	
132				370				375						380			
134	gca	agt	cca	cgc	atg	aat	tta	atg	agt	tta	gct	gct	gag	cct	aat	agt	
135	Ala	Ser	Pro	Arg	Met	Asn	Leu	Met	Ser	Leu	Ala	Ala	Glu	Pro	Asn	Ser	
136				385				390					395				
138	ggt	aaa	aat	gtg	aat	gat	aaa	gtt	aaa	atc	aca	aac	cct	acg	ctt	tca	
139	Gly	Lys	Asn	Val	Asn	Asp	Lys	Val	Lys	Ile	Thr	Asn	Pro	Thr	Leu	Ser	
140				400				405					410				
142	ctt	aat	aag	agt	aat	aat	cac	gct	aat	aac	gta	ata	tgg	cca	aca	agt	
143	Leu	Asn	Lys	Ser	Asn	Asn	His	Ala	Asn	Asn	Val	Ile	Trp	Pro	Thr	Ser	
144	415				420				425				430				
146	aac	gaa	caa	ttt	aat	tta	aaa	gca	aat	tat	gaa	tta	gat	gac	agc	ata	
147	Asn	Glu	Gln	Phe	Asn	Leu	Lys	Ala	Asn	Tyr	Glu	Leu	Asp	Asp	Ser	Ile	
148					435				440				445				
150	aaa	gag	gga	gat	act	ttt	act	att	aag	tat	ggt	cag	tat	att	aga	ccg	
151	Lys	Glu	Gly	Asp	Thr	Phe	Thr	Ile	Lys	Tyr	Gly	Gln	Tyr	Ile	Arg	Pro	
152					450				455				460				
154	ggt	ggt	tta	gaa	ctt	cct	gca	ata	aaa	act	caa	cta	cgt	agt	aag	gat	
155	Gly	Gly	Gly	Leu	Glu	Leu	Pro	Ala	Ile	Lys	Thr	Gln	Leu	Arg	Ser	Lys	Asp
156					465				470				475				
158	ggc	tct	att	gta	gct	aat	ggt	gta	tat	gat	aaa	act	aca	aat	acg	acg	
159	Gly	Ser	Ile	Val	Ala	Asn	Gly	Val	Tyr	Asp	Lys	Thr	Thr	Asn	Thr	Thr	
160					480				485				490				
162	act	tat	aca	ttt	act	aac	tat	gtt	gat	caa	tat	caa	aat	att	aca	ggt	
163	Thr	Tyr	Thr	Phe	Thr	Asn	Tyr	Val	Asp	Gln	Tyr	Gln	Asn	Ile	Thr	Gly	
164	495				500				505				510				
166	agt	ttt	gat	tta	att	gcg	acg	cct	aag	agg	gaa	aca	gca	att	aag	gat	
167	Ser	Phe	Asp	Leu	Ile	Ala	Thr	Pro	Lys	Arg	Glu	Thr	Ala	Ile	Lys	Asp	
168					515				520				525				
170	aat	cag	aat	tat	cct	atg	gaa	gtg	acg	att	gct	aac	gaa	gta	gtc	aaa	
171	Asn	Gln	Asn	Tyr	Pro	Met	Glu	Val	Thr	Ile	Ala	Asn	Glu	Val	Val	Lys	
172					530				535				540				
174	aaa	gac	ttc	att	gtg	gat	tat	ggt	aat	aaa	aag	gac	aat	aca	act	aca	
175	Lys	Asp	Phe	Ile	Val	Asp	Tyr	Gly	Asn	Lys	Lys	Asp	Asn	Thr	Thr	Thr	
176					545				550				555				
178	gca	gcg	gta	gca	aat	gtg	gat	aat	gta	aat	aat	aaa	cat	gaa	gtt		
179	Ala	Ala	Val	Ala	Asn	Val	Asp	Asn	Val	Asn	Asn	Lys	His	Asn	Glu	Val	
180					560				565				570				
182	gtt	tat	cta	aac	caa	aat	aac	caa	acg	cct	aaa	tat	gct	aaa	tat	ttc	
183	Val	Tyr	Leu	Asn	Gln	Asn	Asn	Gln	Asn	Pro	Lys	Tyr	Ala	Lys	Tyr	Phe	
184	575				580				585				590				
186	tca	aca	gta	aaa	aat	ggt	gaa	ttt	ata	cca	ggt	gaa	gtg	aaa	gtt	tac	
187	Ser	Thr	Val	Lys	Asn	Gly	Glu	Phe	Ile	Pro	Gly	Glu	Val	Lys	Val	Tyr	
188					595				600				605				
190	gaa	gtg	acg	gat	acc	aat	gcg	atg	gta	gat	agc	ttc	aat	cct	gat	tta	
191	Glu	Val	Thr	Asp	Thr	Asn	Ala	Met	Val	Asp	Ser	Phe	Asn	Pro	Asp	Leu	
192					610				615				620				
194	aat	agt	tct	aat	gta	aaa	gat	gtg	aca	agt	caa	ttt	gca	cct	aaa	gta	
195	Asn	Ser	Ser	Asn	Val	Lys	Asp	Val	Thr	Ser	Gln	Phe	Ala	Pro	Lys	Val	

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Input Set : A:\Sequence\_10-615,383.txt  
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196	625	630	635	
198	agt gca gat ggt act aga gtt gat atc aat ttt gct aga agt atg gca			1968
199	Ser Ala Asp Gly Thr Arg Val Asp Ile Asn Phe Ala Arg Ser Met Ala			
200	640	645	650	
202	aat ggt aaa aag tat att gta act caa gca gtg aga cca acg gga act			2016
203	Asn Gly Lys Lys Tyr Ile Val Thr Gln Ala Val Arg Pro Thr Gly Thr			
204	655	660	665	670
206	gga aat gtt tat acc gaa tat tgg tta aca aga gat ggt act acc aat			2064
207	Gly Asn Val Tyr Thr Glu Tyr Trp Leu Thr Arg Asp Gly Thr Thr Asn			
208	675	680	685	
210	aca aat gat ttt tac cgt gga acg aag tct aca acg gtg act tat ctc			2112
211	Thr Asn Asp Phe Tyr Arg Gly Thr Lys Ser Thr Thr Val Thr Tyr Leu			
212	690	695	700	
214	aat ggt tct tca aca gca cag ggg gat aat cct aca tat agt cta ggt			2160
215	Asn Gly Ser Ser Thr Ala Gln Gly Asp Asn Pro Thr Tyr Ser Leu Gly			
216	705	710	715	
218	gac tat gta tgg tta gat aaa aat aaa aac ggt gtt caa gat gat gat			2208
219	Asp Tyr Val Trp Leu Asp Lys Asn Lys Gly Val Gln Asp Asp Asp			
220	720	725	730	
222	gag aaa ggt tta gca ggt gtt tat gtt act ctt aaa gac agt aac aat			2256
223	Glu Lys Gly Leu Ala Gly Val Tyr Val Thr Leu Lys Asp Ser Asn Asn			
224	735	740	745	750
226	aga gaa tta caa cgt gta act act gat caa tct gga cat tat caa ttt			2304
227	Arg Glu Leu Gln Arg Val Thr Thr Asp Gln Ser Gly His Tyr Gln Phe			
228	755	760	765	
230	gat aat tta caa aat gga acg tac aca gtc gag ttt gcg att cct gat			2352
231	Asp Asn Leu Gln Asn Gly Thr Tyr Thr Val Glu Phe Ala Ile Pro Asp			
232	770	775	780	
234	aat tat acg cca tct ccc gca aat aat tct aca aat gat gca ata gat			2400
235	Asn Tyr Thr Pro Ser Pro Ala Asn Asn Ser Thr Asn Asp Ala Ile Asp			
236	785	790	795	
238	tca gat ggt gaa cgt gat ggt aca cgt aaa gta gtt gtt gcc aaa gga			2448
239	Ser Asp Gly Glu Arg Asp Gly Thr Arg Lys Val Val Ala Lys Gly			
240	800	805	810	
242	aca att aat aat gct gat aat atg act gta gat act ggc ttt tat tta			2496
243	Thr Ile Asn Asn Ala Asp Asn Met Thr Val Asp Thr Gly Phe Tyr Leu			
244	815	820	825	830
246	act cct aaa tac aat gtc gga gat tat gta tgg gaa gat aca aat aaa			2544
247	Thr Pro Lys Tyr Asn Val Gly Asp Tyr Val Trp Glu Asp Thr Asn Lys			
248	835	840	845	
250	gat ggt atc caa gat gac aat gaa aaa gga att tct ggt gtt aaa gta			2592
251	Asp Gly Ile Gln Asp Asp Asn Glu Lys Gly Ile Ser Gly Val Lys Val			
252	850	855	860	
254	acg tta aaa aat aaa aat gga gat act att ggc aca acg aca aca gat			2640
255	Thr Leu Lys Asn Lys Asn Gly Asp Thr Ile Gly Thr Thr Thr Asp			
256	865	870	875	
258	tca aat ggt aaa tat gaa ttc aca ggt tta gag aac ggg gat tac aca			2688
259	Ser Asn Gly Lys Tyr Glu Phe Thr Gly Leu Glu Asn Gly Asp Tyr Thr			
260	880	885	890	

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262	ata gaa ttt gag acg ccg gaa ggc tac aca ccg act aaa caa aac tcg	2736
263	Ile Glu Phe Glu Thr Pro Glu Gly Tyr Thr Pro Thr Lys Gln Asn Ser	
264	895 900 905 910	
266	gga agt gac gaa ggt aaa gat tca aac ggt acg aaa aca aca gtc aca	2784
267	Gly Ser Asp Glu Gly Lys Asp Ser Asn Gly Thr Lys Thr Val Thr	
268	915 920 925	
270	gtc aaa gat gca gat aat aaa aca ata gac tca ggt ttc tac aag cca	2832
271	Val Lys Asp Ala Asp Asn Lys Thr Ile Asp Ser Gly Phe Tyr Lys Pro	
272	930 935 940	
274	aca tat aac tta ggt gac tat gta tgg gaa gat aca aat aaa gat ggt	2880
275	Thr Tyr Asn Leu Gly Asp Tyr Val Trp Glu Asp Thr Asn Lys Asp Gly	
276	945 950 955	
278	att caa gac gac agt gaa aaa ggg att tct ggg gtt aaa gtg acg tta	2928
279	Ile Gln Asp Asp Ser Glu Lys Gly Ile Ser Gly Val Lys Val Thr Leu	
280	960 965 970	
282	aaa gat aaa aat gga aat gcc att ggg aca acg aca aca gac gca agt	2976
283	Lys Asp Lys Asn Gly Asn Ala Ile Gly Thr Thr Thr Asp Ala Ser	
284	975 980 985 990	
286	ggt cat tat caa ttt aaa gga tta gaa aat gga agc tac aca gtt gag	3024
287	Gly His Tyr Gln Phe Lys Gly Leu Glu Asn Gly Ser Tyr Thr Val Glu	
288	995 1000 1005	
290	ttt gag aca cca tca ggt tat aca ccg aca aaa gcg aat tca ggt	3069
291	Phe Glu Thr Pro Ser Gly Tyr Thr Pro Thr Lys Ala Asn Ser Gly	
292	1010 1015 1020	
294	caa gat ata act gta gat tcc aac ggt ata aca aca aca ggt atc	3114
295	Gln Asp Ile Thr Val Asp Ser Asn Gly Ile Thr Thr Thr Gly Ile	
296	1025 1030 1035	
298	att aac gga gct gat aat ctc aca att gat agt ggt ttc tac aaa	3159
299	Ile Asn Gly Ala Asp Asn Leu Thr Ile Asp Ser Gly Phe Tyr Lys	
300	1040 1045 1050	
302	aca cca aaa tat agt gtc gga gat tat gta tgg gaa gat aca aat	3204
303	Thr Pro Lys Tyr Ser Val Gly Asp Tyr Val Trp Glu Asp Thr Asn	
304	1055 1060 1065	
306	aaa gat ggt atc caa gat gac aat gaa aag gga att tct ggt gtt	3249
307	Lys Asp Gly Ile Gln Asp Asp Asn Glu Lys Gly Ile Ser Gly Val	
308	1070 1075 1080	
310	aaa gta acg tta aag gat gaa aaa gga aat ata att agc act aca	3294
311	Lys Val Thr Leu Lys Asp Glu Lys Gly Asn Ile Ile Ser Thr Thr	
312	1085 1090 1095	
314	aca act gat gaa aat ggg aag tat caa ttt gat aat tta gat agt	3339
315	Thr Thr Asp Glu Asn Gly Lys Tyr Gln Phe Asp Asn Leu Asp Ser	
316	1100 1105 1110	
318	ggt aat tac att att cat ttt gag aaa ccg gaa ggc atg act caa	3384
319	Gly Asn Tyr Ile Ile His Phe Glu Lys Pro Glu Gly Met Thr Gln	
320	1115 1120 1125	
322	act aca gca aat tct gga aat gat gat gaa aaa gat gct gat ggg	3429
323	Thr Thr Ala Asn Ser Gly Asn Asp Asp Glu Lys Asp Ala Asp Gly	
324	1130 1135 1140	
326	gaa gat gtt cgt gtt acg att act gat cat gat gac ttt agt ata	3474

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; N Pos. 6,12

Seq#:17; Xaa Pos. 3

VERIFICATION SUMMARY

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Input Set : A:\Sequence\_10-615,383.txt

Output Set: N:\CRF4\08212006\J615383A.raw

L:37 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:35  
L:903 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:901  
L:1452 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:1450  
L:1725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:1751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0